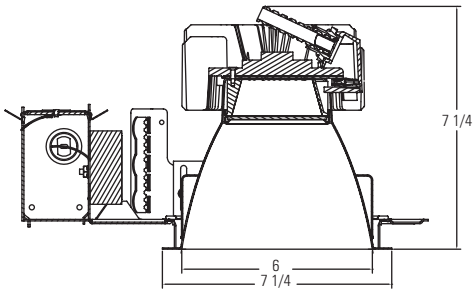
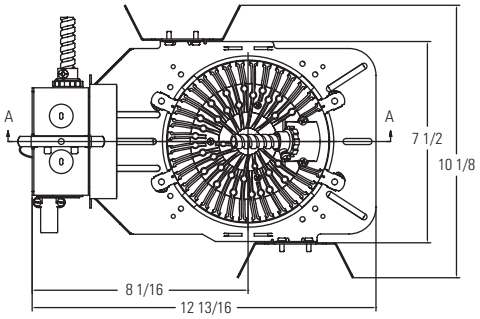
Calculite LED Downlight **C6L1520DL (M)**

1500/2000 Lumen Medium Beam, 6" Aperture Remote Phosphor LED





Flangeless Trim with
Plaster Ring Accessory CA6FMR
(Recommended for gypsum installations)

Ordering Guide: Light Engines

Light Engine Series	Style	Color Temperature	Beam Spread	Reflector Finish	Flange	Options
C6L1520	**DL** (Downlight)	**27K** (2700K) **30K** (3000K) **35K** (3500K) **40K** (4000K)	**M** (Medium beam, 0.9 s.c.)	**CL** (Clear) **CCL** (Comfort Clear) **CCD** (Comfort Clear Diffuse) **CCZ** (Champagne Bronze) **WH** (Painted White)	**W** (Painted white) **P** (Aperture-matching/polished) **FT** (Flush-mount/flangeless)[1]	**EM** (Integral emergency test switch)

Example: C6L1520DL35KMCCLWEM

[1]Accessory CA6FMR recommended for gypsum applications. Reflector flange is 1/8".

Ordering Guide: Frame-in Kits

Frame-in Kit Series	Installation Options	Input Voltage	Options
C6L15 (1500 Lumen) **C6L20** (2000 Lumen)	**N** (New construction) **R** (Remodeler)	**1** (120V) **2** (277V)	**Blank** (0-10 volt dimming) **EM** (Emergency)
CUL15 (1500 Lumen) **CUL20** (2000 Lumen)	**J** (J-box mount retrofit) **S** (Screw-in base retrofit (120V only))	**1** (120V) **2** (277V)	**Blank** (0-10 volt dimming)

Example: C6L15N1EM

Features

Aperture: 6" (152 mm) I.D., 7 1/4" (184mm) O.D.
Input Wattage: 27W (1500 Lumens), 39W (2000 Lumens).
Reflector Cone: Aluminum. Provides 50° cutoff to source & source image. Self-flanged.
Depth (including Frame-in kit): 7 1/4" (184mm)
Power Connection: Attaches to frame-in kit via push-in connector (on frame). Removable cover provides access.

Technology

LED Board: Array of high brightness royal blue LED's.
Remote Phosphor Technology: Patented remote phosphor technology provides increased efficiency and color consistency. Phosphor lens assembly positioned in front of LED array converts blue light to white. Color shift will not exceed +/- 100K over life.
Optical Mixing Chamber: Lightolier-specific mixing chamber redirects back-reflected light through aperture resulting in 20% increase in efficiency.
Thermal Management: Proprietary heat sink and thermal design along with clean room assembly ensures specified performance.
Rated Life: Based on IESNA LM-80-2008
1500 Lumen – 60,000 hours at 70% lumen maintenance.
2000 Lumen – 57,000 hours at 70% lumen maintenance.
Photometric Performance: Tested in accordance to IESNA LM-79-2008

Options

Dimming Capability: 0-10V. See LED-DIM specification sheet
Emergency Capability (Integral): Add "EM" suffix. See LED-EM spec sheet.
Emergency Capability (Inverter): See LED-LMI specification sheet

Labels

UL (suitable for wet locations), cUL, I.B.E.W.
5 Year Warranty

Job Information **Type:**

Job Name:

Cat. No.:

Lamp(s):

Notes:

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710

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Correlated Color Temperature (CCT) Multipliers

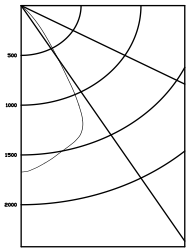
2700K (x 0.92), **3000K** (x 1.00), **3500K** (x 1.07), **4000K** (x 1.14)

Reflector Finish Multipliers

CL (x 1.00), **CCL** (x 0.80), **CCD** (x 0.78), **CCZ** (x 0.63), **WH** (x 0.68) — **CL** & **CCD** finishes are tested. **CCL**, **CCZ** & **WH** are calculated.

1500 LM, 3000K, CL FINISH TRIM

Candlepower Distribution



ANGLE	MEAN CP	LUMENS
0	1672	
5	1625	153
10	1551	
15	1477	417
20	1405	
25	1182	501
30	612	
35	313	205
40	139	
45	32	35
50	3	
55	1	1
60	1	
65	0	0
70	0	
75	0	0
80	0	
85	0	0
90	0	

Trim/Frame: C6L1520DL30KMCLW/C6L15N1

Output lumens:	1312	lm
Correlated Color Temp[1]:	3000K	
Input Watts[2]:	26.6	w
Efficacy:	49.3	lm/w
CRI[4]:	78	
Spacing Criterion:	0.8	

CEILING	80%				70%		50%		30%		0%
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	114	111	109	107	109	105	105	102	101	99	94
2	109	104	100	97	102	96	99	94	96	92	89
3	104	98	93	89	96	89	94	87	91	86	83
4	99	92	87	83	91	82	89	81	87	80	78
5	94	87	81	77	86	77	84	76	82	76	73
6	90	82	76	72	81	72	80	71	78	71	69
7	86	77	72	68	77	68	75	67	74	67	65
8	82	73	68	64	73	64	72	63	71	63	62
9	78	69	64	60	69	60	68	60	67	60	58
10	75	66	60	57	66	57	65	57	64	56	55

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	1071	81.6%
0-40	1275	97.2%
0-60	1312	100.0%
0-90	1312	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	67	5 '
6'	46	6 '
7'	34	7 '
8'	26	8 '
9'	21	10 '

Multiple Unit Data - RCR 2

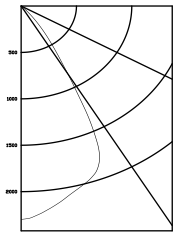
Spacing On Ctr.	Initial Footcandles	Watts/ Sq. Ft.
5'	60.5	1.18
6'	39.7	0.77
7'	28.4	0.55
8'	23.6	0.46
9'	18.9	0.37

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F10018[3]

2000 LM, 3000K, CL FINISH TRIM

Candlepower Distribution



ANGLE	MEAN CP	LUMENS
0	2298	
5	2233	210
10	2130	
15	2028	573
20	1931	
25	1630	690
30	843	
35	431	282
40	191	
45	44	48
50	4	
55	2	2
60	1	
65	1	1
70	0	
75	0	0
80	0	
85	0	0
90	0	

Trim/Frame: C6L1520DL30KMCLW/C6L20N1

Output lumens:	1805	lm
Correlated Color Temp[1]:	3000K	
Input Watts[2]:	39.5	w
Efficacy:	45.7	lm/w
CRI[4]:	78	
Spacing Criterion:	0.8	

CEILING	80%				70%		50%		30%		0%
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	114	111	109	107	109	105	105	102	101	99	94
2	109	104	100	97	103	96	99	94	96	92	89
3	104	98	93	89	96	89	94	87	91	86	83
4	99	92	87	83	91	82	89	81	87	80	78
5	94	87	81	77	86	77	84	76	82	75	73
6	90	82	76	72	81	72	80	71	78	71	69
7	86	77	72	68	77	68	75	67	74	67	65
8	82	73	68	64	73	64	72	63	71	63	62
9	78	69	64	60	69	60	68	60	67	60	58
10	75	66	60	57	65	57	65	57	64	56	55

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	1472	81.5%
0-40	1754	97.2%
0-60	1805	100.0%
0-90	1805	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	92	5 '
6'	64	6 '
7'	47	7 '
8'	36	8 '
9'	28	10 '

Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/ Sq. Ft.
5'	83.2	1.75
6'	54.6	1.15
7'	39.0	0.82
8'	32.5	0.68
9'	26.0	0.55

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F10019[3]

[1] Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid-State Lighting Products.

[2] Wattage controlled to within 5%.

[3] Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

[4] Color Rendering Index within +/- 2%.

Job Information **Type:**

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